R20 Regulation *Subject code: 3P7CB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, May 2026

CAD/CAM

(ME)

Maximum Marks: 70 Date: 07.05.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	BTL
1	Define CAD.	2M	1	L1
2	What is the sweep patterns?	2M	1	L1
3	Define CAM.	2M	2	L1
4	List out the 3D modeling entities.	2M	2	L1
5	Name the types of parametric curves.	2M	3	L1
6	Define DNC.	2M	3	L1
7	Name the multipoint the cutting tools.	2M	4	L1
8	List out the contact inspections methods.	2M	4	L1
9	Name the main components of CNC drilling machine.	2M	5	L1
10	What is the aim of non destructive inspection.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	List out solid modeling methods and explain any one method in modeling.	10M	1	L2
	OR			
12	Explain B-rep and CSG of solid modeling concepts with their advantages and disadvantages.	10M	1	L2
13	Explain about transformation of geometry.	10M	2	L2
	OR			
14	Explain CAM applications, advantages and disadvantages.	10M	2	L2
15	Explain about CIM and its applications and benefits.	10M	3	L2
	OR			
16	Explain the different types of cutting tools for CNC operations.	10M	3	L2
17	Explain about computer aided process planning and its advantages.	10M	4	L2
	OR			
18	Explain the function of inspection with suitable examples.	10M	4	L2
19	What is the difference between Destruction and non-destruction inspection methods? Explain.	10M	5	L2
	OR			
20	What are the benefits of GT? Explain detail with applications.	10M	5	L2